

United States Patent and Trademark Office

6/

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,205	04/16/2004	Sung-Su Jung	8734.294.00 US	7679
	7590 08/27/2007 ONG & ALDRIDGE LLF	EXAMINER		
1900 K STREET, NW			WARD, JESSICA LEE	
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			1733	
			MAIL DATE	DELIVERY MODE
			08/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summany						
		10/825,205	JUNG ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Jessica L. Ward	1733			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on <u>07 May 2007</u> .					
′=	This action is FINAL . 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) 1-17 and 20-33 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 18,19,34 and 35 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
/—	The specification is objected to by the Examine					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
1) Notice 2) Notice 3) Inform	the of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) the No(s)/Mail Date 4/25/07.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

FINAL ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 18-19 and 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art in view of Yamada et al. (JP 2002-258299, provided in IDS).

As to claim 34, the Admitted Prior Art discloses a method of fabricating a liquid crystal display panel by forming a thin film transistor array substrate, forming a color filter substrate, dispensing a material through a plurality of syringes (301A, 301B, 301C) and their respective nozzles (302A, 302B, 302C) onto at least one of the substrates, and joining the substrates (Figure 3; sections [0012, 0016-0017]). It is unclear as to whether the Admitted Prior Art teaches a syringe having a plurality of nozzles where at least one of the nozzles can move with respect to a position of the body of the syringe where the material can be dispensed from the nozzles at the same time.

Yamada teaches it being known in the art of liquid crystal display manufacture to use a dispensing apparatus comprising a syringe having a body (8) for containing a dispensing material and a plurality of nozzles (10) at one end of the body to supply the material onto a substrate (Figure 1; section [0022] at top of p. 13). At least one of the nozzles can be moved with respect to the body to adjust the size of a dispensed pattern and the material can be dispensed from the plurality of nozzles simultaneously (Figure 5; portion of section [0010] at top of p. 10; section [0036]). This makes it possible to form various types/sizes of panels on one substrate, as shown in Figure 5 of Yamada.

Art Unit: 1733

It would have been obvious to one of ordinary skill in the art at the time of the invention to use a dispensing apparatus where the syringe has a plurality of nozzles connected to it's body portion such that at least one of the nozzles moves with respect to the body and the plurality of nozzles dispense the material simultaneously when manufacturing the LCD panel of the Admitted Prior Art because such is known in the art, as evidenced by Yamada, where this allows for various types/sizes of panels to be formed on one substrate thereby increasing productivity.

As to claim 18, all the limitations were addressed above with respect to claim 34, except a connection portion to couple the nozzles with the body portion. Yamada teaches connection portion (11) (Figure 1; section [0022] at top of p. 13).

As to claims 19 and 35, the Admitted Prior Art in view of Yamada teaches such.

Response to Arguments

3. Applicant's arguments with respect to claims 18 and 34 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

Application/Control Number: 10/825,205 Page 4

Art Unit: 1733

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessica L. Ward whose telephone number is 571-272-1223. The examiner can normally be reached on Mon-Fri between 9AM and 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard D. Crispino can be reached on 571-272-1226. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jessica L. Ward Primary Examiner Art Unit 1733

> JESSICA WARD PRIMARY EXAMINER Jessice Ward